

LITHOGRAPHIC PRINTING PLATE FOR LASER DIRECT PLATE MAKING - REQUIRING NO LIQ. DEVELOPING TREATMENT PROCESS, IS OBTD. BY IRRADIATING PULSED UV LASER ON THERMOPLASTIC POLYMER FILM FOR SIMPLIFIED, LOW COST PLATE MAKING PROCESS

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Abstract: EP 743177 A

A lithographic printing plate for laser direct plate making, requiring no liq. development treatment process, is obtd. by imagewise irradiating a pulsed UV laser, having a wavelength in the UV range, on a thermoplastic polymer film having the absorption band range in the UV range to impart hydrophilicity to the irradiated portion of the polymer.

Also claimed is a method for offset printing in which such a pulsed UV laser is imagewise irradiated on such a polymer film to form an image and then an ink, for lithographic printing, is printed on the polymer film.

USE - Used for a computer-to-plate system in offset printing.

ADVANTAGE - The simplified, low cost plate making process employs a generally used polymer material and an existing appts., and provides plates showing high printing performance.

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